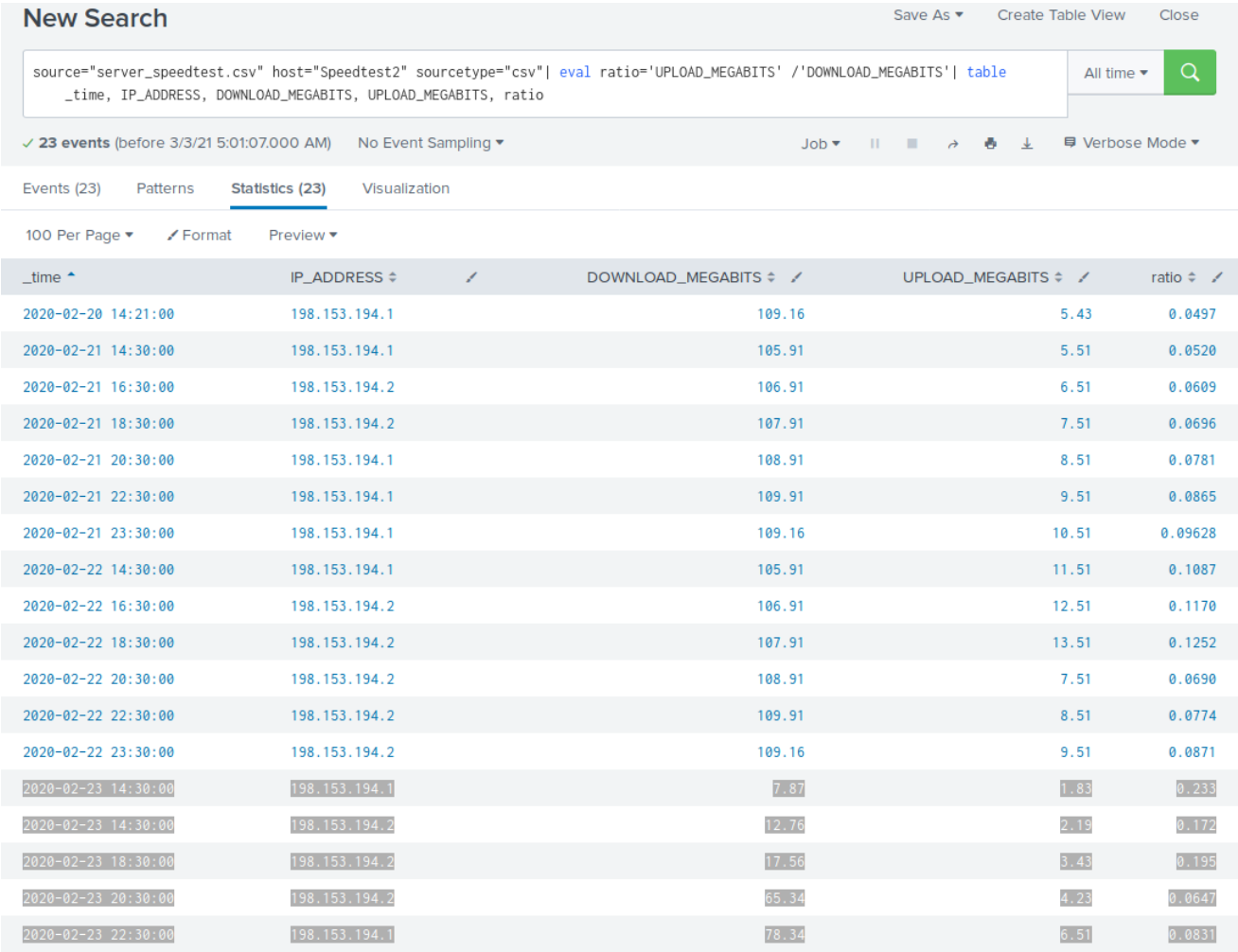
Unit 18 Homework: Lets go Splunking!

Step 1: The Need for Speed

Answer the following questions:

- Based on the report created, what is the approximate date and time of the attack?
- How long did it take your systems to recover?
  The attack began at 2020-02-23 at 2:30pm(14:30) and lasted until 2020-02-23 at 10:30pm(22:30)

Submit a screen shot of your report and the answer to the questions above.

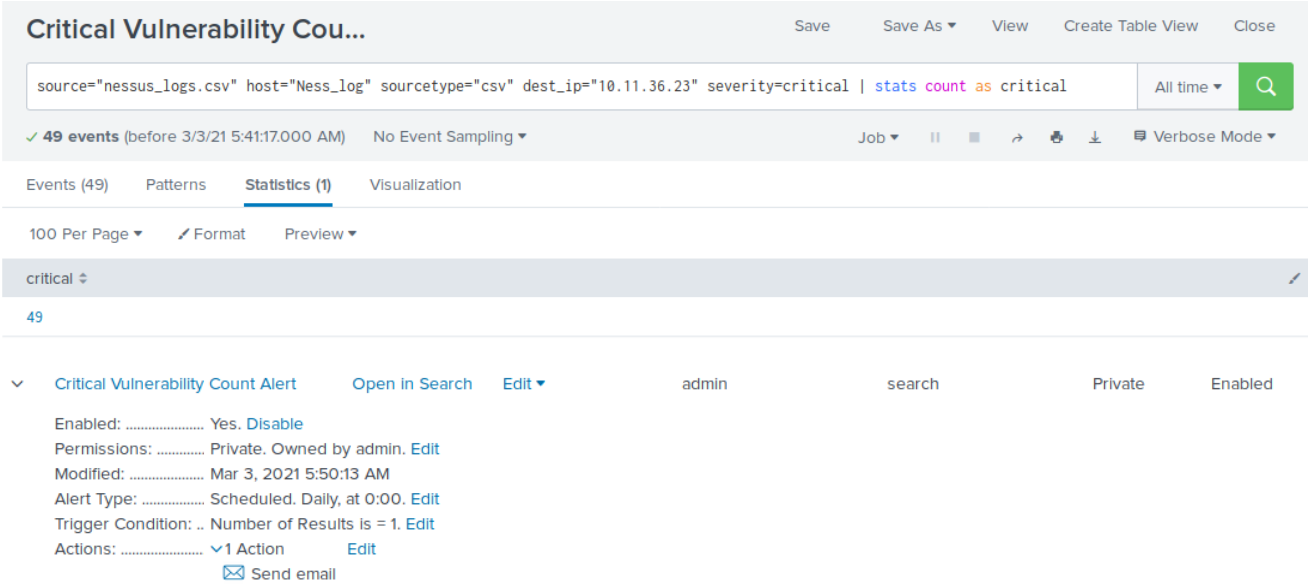


_time	IP_ADDRESS	DOWNLOAD_MEGABITS	UPLOAD_MEGABITS	ratio
2020-02-20 14:21:00	198.153.194.1	109.16	5.43	0.0497
2020-02-21 14:30:00	198.153.194.1	105.91	5.51	0.0520
2020-02-21 16:30:00	198.153.194.2	106.91	6.51	0.0609
2020-02-21 18:30:00	198.153.194.2	107.91	7.51	0.0696
2020-02-21 20:30:00	198.153.194.1	108.91	8.51	0.0781
2020-02-21 22:30:00	198.153.194.1	109.91	9.51	0.0865
2020-02-21 23:30:00	198.153.194.1	109.16	10.51	0.09628
2020-02-22 14:30:00	198.153.194.1	105.91	11.51	0.1087
2020-02-22 16:30:00	198.153.194.2	106.91	12.51	0.1170
2020-02-22 18:30:00	198.153.194.2	107.91	13.51	0.1252
2020-02-22 20:30:00	198.153.194.2	108.91	7.51	0.0690
2020-02-22 22:30:00	198.153.194.2	109.91	8.51	0.0774
2020-02-22 23:30:00	198.153.194.2	109.16	9.51	0.0871
2020-02-23 14:30:00	198.153.194.1	7.87	1.83	0.233
2020-02-23 14:30:00	198.153.194.2	12.76	2.19	0.172
2020-02-23 18:30:00	198.153.194.2	17.56	3.43	0.195
2020-02-23 20:30:00	198.153.194.2	65.34	4.23	0.0647
2020-02-23 22:30:00	198.153.194.1	78.34	6.51	0.0831

Step 2: Are We Vulnerable?

1. Create a report that shows the `count` of critical vulnerabilities from the customer database server.
   - The database server IP is `10.11.36.23`.
   - The field that identifies the level of vulnerabilities is `severity`.
2. Build an alert that monitors every day to see if this server has any critical vulnerabilities. If a vulnerability exists, have an alert emailed to `soc@vandalay.com`.

Submit a screenshot of your report and a screenshot of proof that the alert has been created.

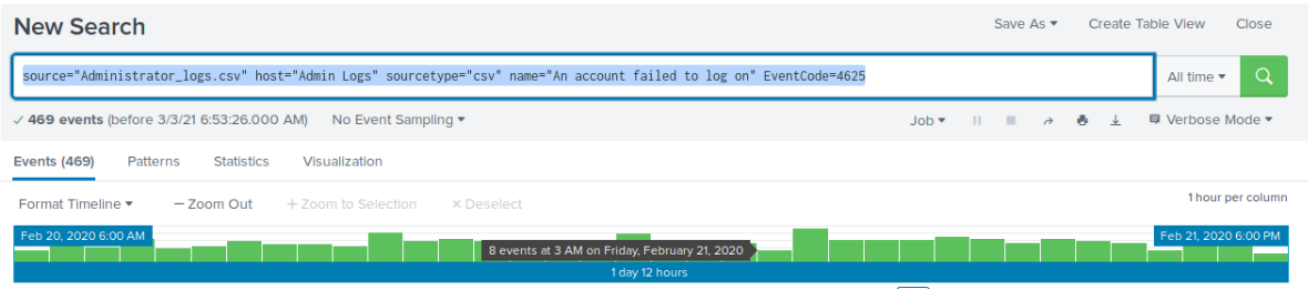


Step 3: Drawing the (base)line

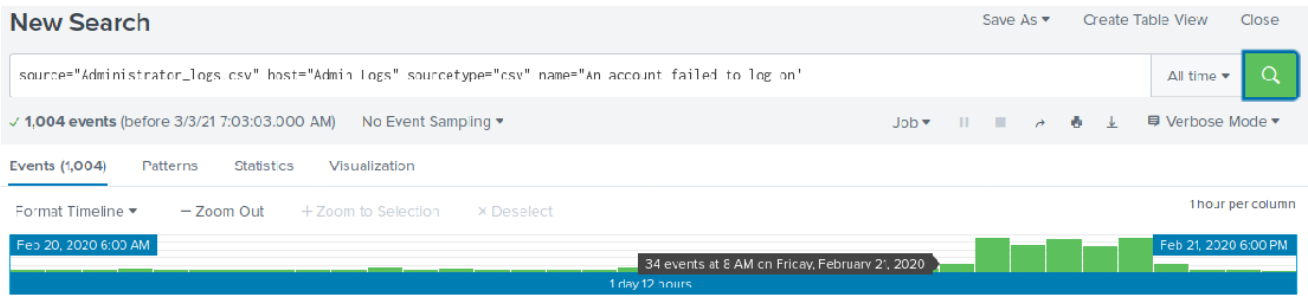
1. When did the brute force attack occur?
   2021-02-21
2. Determine a baseline of normal activity and a threshold that would alert if a brute force attack is occurring.
3. Design an alert to check the threshold every hour and email the SOC team at SOC@vandalay.com if triggered.

Submit the answers to the questions about the brute force timing, baseline and threshold. Additionally, provide a screenshot as proof that the alert has been created.

Using: source="Administrator_logs.csv" host="Admin Logs" sourcetype="csv" name="An account failed to log on" EventCode=4625 **Based on the Visual Representation 8 would be a suited amount for a triggered email alert.**



Using : source="Administrator_logs.csv" host="Admin Logs" sourcetype="csv" name="An account failed to log on" **Based on the Visual Representation 15 would be a suited amount for a triggered email alert.**



Potential Hourly Alert